

Deductive Databases and their Applications is an introductory text aimed at undergraduate students with some knowledge of database and information systems. The text comes complete with exercises and solutions to encourage students to tackle problems practically as well as theoretically.

Show Context Citation Context The main contributions of this t Hall , " Modern society is intrinsically dependent on the ability to manage data effectively. While relational databases have been the industry standard for the past quarter century, recent growth in data volumes and complexity requires novel data management solutions. These trends revitalized the interest i These trends revitalized the interest in deductive databases and highlighted the need for column-oriented data storage. However, programming technologies for enterprise computing were designed for the relational data management model i. There-fore, developers cannot easily incorporate emerging data management solutions into enter-prise systems. To address the problem above, this thesis presents Deductive Java DJ , a system that en-ables enterprise programmers to use a column oriented deductive database in their Java applications. DJ does so without requiring that the programmer become proficient in de-ductive databases and their non-standardized, vendor-specific APIs. The design of DJ in-corporates three novel features: We propose a deductive extension of the spreadsheet paradigm as the basis for an automated assistant for the daily reasoning and decision-making needs of com-puter users, in the same way as a spreadsheet applica-tion such as Microsoft Excel assists them every day with calculations simple and complex Users without formal training in Logic or even Computer Science can inter-actively dene logical rules in the same simple way as they dene formulas in Excel. These rules are imme-diately evaluated thereby returning lists of values that satisfy them, again just like with numerical formulas. The deductive component is seamlessly integrated into the traditional spreadsheet so that a user not only still has access to the usual functionalities, but is able to mix deductive reasoning and numerical calculation. Mapping ORM to Datalog: Optimization of modern businesses is becoming increasingly dependent on business intelligence and rule-based software to perform predictive analytics over massive data sets and enforce complex business rules. This has led to a resurgence of interest in datalog, because of its powerful capa This has led to a resurgence of interest in datalog, because of its powerful capability for processing complex rules, especially those involving recursion, and the exploitation of novel data structures that provide performance advantages over relational database systems. ORM 2 is a conceptual approach for fact oriented modeling that provides a high level graphical and textual syntax to facilitate validation of data models and complex rules with nontechnical domain experts. Datalog LB is an extended form of typed datalog that exploits fact-oriented data structures to provide deep and highly performant support for complex rules with guaranteed decidability. Usability and usefulness have made the spreadsheet one of the most successful computing applications of all times: One thing spreadsheets are not very good at is manipulating symbolic data One thing spreadsheets are not very good at is manipulating symbolic data and helping users make decisions based on them. By tapping into recent research in Logic Programming, Databases and Cognitive Psychology, we propose a deductive extension to the spreadsheet paradigm which addresses precisely this issue. The accompanying tool, which we call NEXCEL, is intended as an automated assistant for the daily reasoning and decision-making needs of computer users, in the same way as a spreadsheet application such as Microsoft Excel assists them every day with calculations simple and complex. Users without formal training in Logic or even Computer Science can interactively define logical rules in the same simple way as they define formulas in Excel. NEXCEL immediately evaluates these rules thereby returning lists of values that satisfy them, again just like with numerical formulas. The deductive component is seamlessly integrated into the traditional spreadsheet so that a user not only still has access to the usual functionalities, but is able to use them as part of the logical inference and, dually, to embed deductive steps in a numerical calculation. We propose a deductive extension of the spreadsheet paradigm as the basis for an automated assistant for the daily reasoning and decision-making needs of computer users, in the same way as a spreadsheet application such as Microsoft Excel assists them every day with calculations simple and complex. These rules are immediately

evaluated thereby returning lists of values that satisfy them, again just like with numerical formulas.

2: Review: Deductive Databases and their Applications : ITNOW - oi

This is most probably due to the fact that deductive databases are used to create large knowledge bases, a thing that is beyond the scope of most of the applications. In the recent years, some deductive database concepts started to be used in other systems.

Oral exams, between July 16th and October with individual appointments: Exam period in July: Exam period in August: Exam period in September: Exam period in October: Winter term lectures start on Oct. The exams take place in my office, Room 2. Some topics of the course are closely related to chapters of the book *Foundations of Databases* by Serge Abiteboul, Richard Hull, and Victor Vianu that can be found as pdf here. A comprehensive course in logics incl. Schmitt, Karlsruhe mainly Chapters 4 und 5. Mondial in Datalog is available here. The Datalog sample programs from the slides are available here. Go to the directory where your input sources e. P must be in the current directory. Press "return" once to leave answers, press any other key and "return" to get next answer. String constants are enclosed in single quotes like in SQL: Double quotes are not allowed. Instead we use the constant null; this breaks the domain for numerical comparison. For experimenting with stable models, smodels and its lparse frontend are installed in the CIP pool: Option -d none omits the EDB predicates from the models. See lparse -help and smodels -help for further options. Download smodels and lparse from Helsinki University of Technology. YZ, run make, creates smodels binary. Assign an alias for calling it.

3: CiteSeerX " Natural Language Interfaces as Integrated Constituents of Deductive Databases

Get this from a library! Deductive Databases And Their Applications.. [Robert Colomb] -- Targetted at intermediate undergraduates, this text is designed for students of computer science who have already been introduced to databases and are beginning to specialize at the senior level.

4: Deductive Databases and Their Applications - CRC Press Book

Note: Citations are based on reference standards. However, formatting rules can vary widely between applications and fields of interest or study. The specific requirements or preferences of your reviewing publisher, classroom teacher, institution or organization should be applied.

5: Robert M. Colomb (Author of Deductive Databases and Their Applications)

The origins of deductive database in Prolog are presented first before the main deductive database paradigm, the datalog model, is analyzed. The final chapters are dedicated to the closely related topics of propositional expert systems, integrity constraint specification and evaluation, and update propagation.

6: CiteSeerX " Citation Query Deductive Databases and their Applications

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7: - DEDUCTIVE DATABASES AND THEIR APPLICATIONS by Robert [Editor] Colomb

To address the problem above, this thesis presents Deductive Java (DJ), a system that enables enterprise programmers to use a column oriented deductive database in their Java applications. DJ does so without requiring that the programmer become proficient in de-ductive databases and their non-standardized, vendor-specific APIs.

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